WHAT IS CLAIMED IS:

1. In a communication system having a first communication station for communicating a communication signal to a second communication station, the communication signal weighted at the first communication station with a first antenna weight for communication to the second communication station by way of a first channel path and weighted at the first communication station with a second antenna weight for communication to the second communication station by way of a second channel path, an improvement of apparatus for verifying closed-loop values indicative of the first antenna weight and the second antenna weight, said apparatus comprising:

a sequence estimator coupled to receive indications of the communication signal, once received at the second communication station, said sequence estimator for estimating estimated values of the first antenna weight and of the second antenna weight by which to weight the communication signal, the estimated values formed by said sequence estimator selected responsive to both a memory component and a current component, the estimated values verifying the closed-loop values indicative of the first antenna weight and the second antenna weight.

2. The apparatus of claim 1 wherein the current component responsive, in part, to which said sequence estimator selects the estimated values of the first antenna weight and of the second antenna weight comprises most-recent closed-loop values indicative of the first and second antenna weights.

3. The apparatus of claim 2 wherein the memory component responsive, in part, to which said sequence estimator selects the estimated values of the first antenna weight and of the second antenna weight comprises at least one set of closed-loop values indicative of the first and second antenna weights prior to the most-recent closed-loop values.

4. The apparatus of claim 3 further comprising a detector positioned at the second communication station, wherein the closed-loop values indicative of the first antenna weight and the second antenna weight are communicated by the first communication station to the second communication station, said detector for detecting the closed-loop values communicated to the second communication station.

5. The apparatus of claim 4 wherein said sequence estimator comprises a trellis matrice, the trellis matrice defining a plurality of states, each state formed of allowable values of the first and second antenna weights.

6. The apparatus of claim 5 wherein a first state defined by the trellis matrice of said sequence estimator defines a most recent state.

7. The apparatus of claim 6 wherein states defined by the trellis matrice other than the first state define states prior to the most-recent state.

8. The apparatus of claim 7 wherein the estimated values formed by said estimator are formed by a branch metric extending through the trellis matrice.

9. The apparatus of claim 8 wherein the branch metric by which the estimated values are formed by said estimator comprises an optimal length branch metric.

10. The apparatus of claim 8 wherein the trellis of said sequence estimator utilizes MAP metrics to determine the branch metric.

11. The apparatus of claim 1 wherein the communication system comprises a radio communication system which utilizes WDCMA (wideband code division multiple access) communication techniques and wherein the closed-loop values to which said sequence estimator is coupled to receive indications thereof comprise closed-loop values of the first and second antenna weights, respectively, indicative of antenna weighting by which to weight a WCDMA signal which forms the communication signal.

12. The apparatus of claim 11 wherein the radio communication system comprises a cellular communication system wherein the first communication station comprises a cellular base transceiver station, wherein the second communication station comprises a mobile station, and wherein the closed-loop values to which said sequence estimator is coupled to receive indications thereof comprise pilot symbol values.

13. The apparatus of claim 12 wherein the indications of the closed-loop values to which said sequences estimator is coupled to receive are representative of closed-loop values when received at the mobile station.

14. The apparatus of claim 12 wherein the estimated values formed by said sequence estimator are used by the base transceiver station to weight the WCDMA signal to maximize the power thereof when received at the mobile station.

15. In a method for communicating in a communication system having a first communication station for communicating a communication signal to a second communication station, the communication signal weighted at the first communication station with a first antenna weight for communication to the second communication station by way of a first channel path and weighted at the first communication station with a second antenna weight for communication to the second communication station by way of a second channel path, an improvement of a method for verifying closed-loop values indicative of the first antenna weight and the second antenna weight, said method comprising:

detecting, at the second communication station, indications of the communication signal, once received at the second communication station;

estimating estimated values of the first antenna weight and of the second antenna weight by which to weight the communication signal is weighted, the estimated values selected responsive to both a memory component and a current component, the estimated values verifying the closed-loop values indicative of the first antenna weight and the second antenna weight.

16. The method of claim 15 wherein the current component of the estimated values estimated during said operation of estimating comprises most-recently detected closed-loop values detected most-recently during said operation of detecting.

17. The method of claim 16 wherein the memory component of the estimated values estimated during said operation of estimating comprises at least one set of closed-loop values indicative of the first and second antenna weights prior to the most-recent closed-loop values.

18. The method of claim 17 wherein said operation of estimating comprises:

forming a trellis matrice defined by a plurality of states, each state formed of allowable values of the first and second antenna weights, and

forming a maximum length branch metric therethrough.

19. The method of claim 15 wherein the closed-loop values indicative of the first and second antenna weights, indications of which are detected during said operation of detecting, are communicated to the second communication station by the first communication station and comprise pilot symbols.

20. The method of claim 15 wherein the communication system comprises a radio communication system operable pursuant to a WCDMA (wideband code division multiple access) communication scheme, wherein the first communication station comprises a base transceiver station and the second communication station comprises a mobile station and wherein said operations of detecting and estimating are performed at the mobile station.